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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

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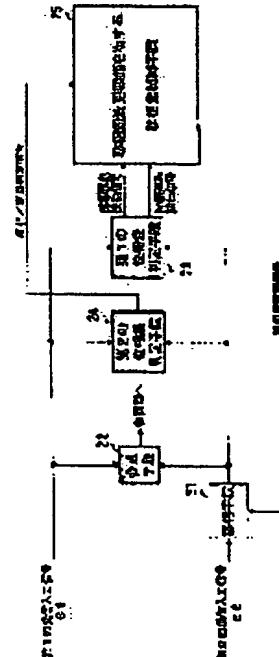
ATSUTA HIROSADA

## (54) IN-PHASE COMBINATION SPACE DIVERSITY RECEIVER

(57)Abstract:

**PROBLEM TO BE SOLVED:** To avoid effect at an inverse phase point of a dead band provided to improve noise improvement and improve a control speed for in-phase combination control in the in-phase combination space diversity receiver where a lead/ lag is discriminated based on a phase difference of two reception input signals so as to control the phase difference when both input signals are put together.

**SOLUTION:** When a phase relation of two reception input signals S1, S2 is discriminated to be in an inverted phase range ( $90^\circ < \Delta\theta < 270^\circ$ ) by a 2nd phase difference discrimination means 24, a phase shift amount control means 25 receiving the discrimination signal controls a phase shift means 21 to change the phase shift amount of the phase shift means by  $180^\circ$  at that point of time. The phase control based on the discrimination result of the 1st phase difference discrimination means 23 is conducted always within an in-phase range ( $-90^\circ < \Delta\theta < 90^\circ$ ), the effect of a dead band in an inverse phase point is not received and even in the case of phase control near an inverted phase with a high phase difference is converted to the in phase point at a high speed.



## LEGAL STATUS